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Patent Claims

- Method for producing combined puncturing and measuring devices for detection of an analyte in liquid, including a support (1) and a detection element (22), the method comprising the following method steps:
 - forming recesses (11) which define puncturing points (16) on one face (9) of the band-shaped support material (1),
 - applying a detection element (22) to the band-shaped support material (1), and
 - separating individual puncturing/measuring disposable bodies (6) either singly or in groups from the band-shaped support material (1) at separating lines (5; 24, 25).
- 15 2. Method according to Claim 1, characterized in that depressions (2, 23) are embossed into the band-shaped support material (1) in order to form a channel suitable for capillary liquid transport.
- 3. Method according to Claim 2, characterized in that the depressions (2, 23) are embossed transversely with respect to the direction of advance (39) of the band-shaped support material (1).
- 4. Method according to Claim 2, characterized in that, on both sides of the depressions (2), individual puncturing/measuring disposable bodies (6) are separated in sections from the band-shaped support material (1) along virtual separating lines (5).
 - 5. Method according to Claim 4, characterized in that the virtual separating lines (5) are chosen in accordance with a predeterminable, selectable division (12).

- 6. Method according to Claim 2, characterized in that the depressions (2) in the band-shaped support material (1) are designed with a rounding (34) at the depression bottom (4).
- Method according to Claim 2, characterized in that the depressions (2) in the band-shaped support material (1) are designed with a depression base (4) which has a triangular contour (35).
- 8. Method according to Claim 1, characterized in that the recesses (11) on the first face (9) are punched out or cut out from the band-shaped support material (1), with first and second edges (14, 15) being formed.
- 9. Method according to Claim 1, characterized in that the recesses (11) on the first face (9) of the band-shaped support material (1) are produced so as to be symmetrical with respect to the separating lines (5).
 - 10. Method according to Claim 8, characterized in that the first and second edges (14, 15) of the recesses (11) defining the puncturing points (16) are ground.
- Method according to Claim 1, characterized in that the puncturing points (16) formed on the first face (9) of the band-shaped support material (1) are provided with a soft plastic cover (18) covering them.
- Method according to Claim 2, characterized in that a coating (21) covering the depressions (2) and the material containing the detection element (22) are applied to the band-shaped support material (1) in one work step.
- 13. Method according to Claims 2 and 11, characterized in that the coating (21) covering the depressions (2) and the material containing the detection element (22) are applied to the band-shaped support material (1) one after the other.

14. Method according to Claim 1, characterized in that individual puncturing/measuring disposable bodies (6) are separated singly or in groups from the band-shaped support material (1) transversely with respect to the direction of advance (39) along the separating lines (5).

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15. Method according to Claim 14, characterized in that, in the case of individual puncturing/ measuring disposable bodies (6) being separated from the band-shaped support material (1) in groups along the separating lines (5), perforations are formed to make handling easier.

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- 16. Method according to Claims 6 or 7, characterized in that the depression base (4) of the depressions (2) is provided with a hydrophilic coating which improves the wetting behaviour of a liquid reservoir (32).
- 15 17. Method according to Claim 1, characterized in that a material containing the detection element (22) is applied to the band-shaped support material (1) near the puncturing point (16).
- Method for producing combined puncturing and measuring devices for detection of an analyte in liquid, including a support (1) and a detection element (22), the method comprising the following method steps:
 - forming puncturing points (16) on a band-shaped support material (1),
 - sealing the puncturing points (16),
 - sterilizing the puncturing points (16) and/or the band-shaped support material (1), and
 - applying a detection element (22) to the band-shaped support material (1).
- 19. Combined puncturing and measuring device for detection of an analyte in liquid, produced in particular according to one or more of Claims 1 to 18, characterized in that individual puncturing/measuring disposable bodies (6) have a puncturing point (16) which is provided with a soft plastic cover (18) and comprise a detection

- element (22) which is applied to the individual puncturing/measuring disposable body (6) after the latter has been sterilized and/or sealed.
- 20. Combined puncturing and measuring device according to Claim 19, characterized in that the detection element (22) is applied to a channel which has been embossed as a depression (2, 23) in the individual puncturing/measuring disposable body (6) and which is suitable for capillary liquid transport.

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